





#### **TECHNOLOGY HIGHLIGHTS:**

- Bluetooth Smart 4.1 and WiFi compliant
- iBeacon (Apple), Eddystone (Google) and sBeacon (Bluvision) supported concurrently
- Models for any standard A/C power outlet
- Location precision down to 3 ft (1m)
- Central management possible

## BLUETOOTH SMART TO WIFI GATEWAYS FOR BEACON MANGEMENT

- Cloud Enabled Bi-directional BLE to WiFi gateway for remote management
- Smart Accurately measures distance to BLE Beacons for RTLS
- Rapid Implementation Simply install at any conventional power plug

BluFi™ are Bluetooth Low-Energy (BLE) to Wifi gateways that relay signals between BEEKs Beacons and the cloud of HID Global's end-to-end IoT ecosystem. In combination with the corresponding Bluzone™ cloud services, BluFi enable BEEKs™ beacons to be centrally managed through the cloud, to transfer new messages, firmware updates, sensor data and battery status checks remotely. Their unique design allows BluFi devices and BEEKs beacons to broadcast reliably even in densely populated WiFi environments.

BEEKs and BluFi are not limited to standard beacon applications. HID Condition Monitoring Services, enabled by Bluvision, include a range of sensor beacons for motion, temperature, light, vibration and even magnetic field. This sensor data is sent via BluFi gateways to the Bluzone Cloud to perform operational analysis for motorized equipment performance, capacity load, door open status etc. Alerts according to policy are received via e-mail or web service.

HID Global Location Services, enabled by Bluvision, is an efficient real-time asset location and item management platform leveraging BEEKs beacons to effectively pin down the locations of assets inside a warehouse, campus or manufacturing hall. The calculation of the BEEKs location is based on received signal strength and other factors measured by BluFi devices installed in standard power plugs at the area that is to be monitored e.g. an office or manufacturing hall.

BluFi devices are available in four major international power plug versions and can be installed in any standard power outlet on a wall or ceiling. Battery powered or LTE enabled BluFi devices are available on request. BluFi devices make it easy and cost efficient to cover an area with BLE to internet connectivity to take advantage of centralized management, real-time condition monitoring or location services with a fraction of the effort required by alternative technologies.



## **APPLICATION AREAS:**

#### **Condition Monitoring**

- Wireless status info on motorized equipment (on/off)
- Failure prediction based on vibration or temperature trends
- Reporting of equipment duty cycles
- Cold chain applications

#### **Real-time location for assets**

- Indoor position tracking of assets (Tools, portable equipment, vehicles)
- Position based alerting, heat-maps etc.

#### **Retail advertisement**

- BEEKs beacons may be used in iBeacon and/or Eddystone mode for advertising messages or location based services
- Central provisioning or monitoring via BluFi and Bluzone possible



# **SPECIFICATIONS**

Bluetooth Type Bluetooth Sensitivity -98dBm  WiFi Type 802.11 b/g/n  WiFi Sensitivity -97.5dBm @ 1DSSS -88.5dBm @ 11 CCK  WiFi Frequency 2.4 Ghz with coexistence built-in with Bluetooth  ARM Cortex M4 and ARM Cortex M3  Memory 256KB Flash (100KB free for custom applications)  Power Consumption PHYSICAL Length × Width 2 × 1.5 x 1.5 in (50 × 38 × 38 mm)  Housing Material Polycarbonate and ABS  Color White  Weight 1.3 oz (37 g) 1.6 oz (46 g) 1.7 oz (48 g) 1.6 oz (46 g)  CLOUD Type Bluzone Cloud - Cloud realtime managed  Data Output to Cloud ENVIRONMENTAL REQUIREMENTS Temperature -13° to +149° F (-25° to +65° C)  OTHER Standards FCC/CE/UL/FRE		BluFi			
ELECTRONIC  AC Input  NEMA 1-15 ungrounded (Type A)  Bluetooth Type  Bluetooth Type  Bluetooth Sensitivity  WiFi Sensitivity  WiFi Sensitivity  Processor Type  ARM Cortex M4 and ARM Cortex M3  Memory  Power Consumption  PHYSICAL  Length × Width  Housing Material  Color  Weight  1.3 oz (37 g)  Data Output  Data Output  To (190 c)  BVBFU-In I (EU)  BSVBFU-In I (EU)  BSUBFUE IN IN IN ITERATOR (ITERATOR IN ITERATOR IN ITE		BALLET .			
AC Input  AC Plugs  NEMA 1-15 ungrounded (Type A)  Bluetooth Low Energy 4.1  Bluetooth Type  Bluetooth Low Energy 4.1  Bluetooth Sensitivity  WiFi Type  BO2.11 b/g/n  -97.5dBm @ IDSSS -88.5dBm @ 11 CCK  WiFi Frequency  ARM Cortex M4 and ARM Cortex M3  Memory  Processor Type  ARM Cortex M4 and ARM Cortex M3  Memory  Power  Consumption  PHYSICAL  Length × Width  Color  White  Color  White  Bluzone Cloud - Cloud realtime managed  Data Output to Cloud  ENVIRONMENTAL  REQUIREMENTS  Temperature  OTHER  Standards  FCC/CE/UL/FRE		BVBFUS-IDT (US)	BVBFEU-IDT (EU)	BVBFUK-IDT (UK)	BVBFAU-IDT (AU)
AC Plugs Ungrounded (Type A) CEE 7/16 "Europlug" BS 1363 (Type G) AS/NZS 3112 (Type I ungrounded)  Bluetooth Type Bluetooth Low Energy 4.1  Bluetooth Sensitivity -98dBm  WiFi Type B02.11 b/g/n  WiFi Sensitivity -97.5dBm @ 1DSSS -88.5dBm @ 11 CCK  WiFi Frequency 2.4 Ghz with coexistence built-in with Bluetooth  Processor Type ARM Cortex M4 and ARM Cortex M3  Memory 256KB Flash (100KB free for custom applications)  Power Consumption 20mA on sleep  PHYSICAL  Length × Width 2 × 1.5 x 1.5 in (50 × 38 x 38 mm)  Housing Material Polycarbonate and ABS  Color White  CLOUD  Type Bluzone Cloud - Cloud realtime managed  Data Output to Cloud  ENVIRONMENTAL REQUIREMENTS  Temperature -13° to +149° F (-25° to +65° C)  OTHER  Standards  FCC/CE/UL/FRE	ELECTRONIC		'		
Bluetooth Type  Bluetooth Low Energy 4.1  Bluetooth Sensitivity  -98dBm  WiFi Type  Bluetooth Joy/n  WiFi Sensitivity  -97.5dBm @ 1DSSS -88.5dBm @ 11 CCK  WiFi Frequency  2.4 Ghz with coexistence built-in with Bluetooth  Processor Type  ARM Cortex M4 and ARM Cortex M3  Memory  256KB Flash (100KB free for custom applications)  Power Consumption  PHYSICAL  Length × Width  2 × 1.5 x 1.5 in (50 × 38 x 38 mm)  Housing Material  Polycarbonate and ABS  Color  White  Weight  1.3 oz (37 g)  1.6 oz (46 g)  1.7 oz (48 g)  1.6 oz (46 g)  Data Output to Cloud  ENVIRONMENTAL REQUIREMENTS  Temperature  -13° to +149° F (-25° to +65° C)  OTHER  Standards  FCC/CE/UL/FRE	AC Input	100-240 VAC, 50/60 Hz			
Bluetooth Sensitivity  WiFi Type  802.11 b/g/n  WiFi Sensitivity  -97.5dBm @ 1DSSS -88.5dBm @ 11 CSK  WiFi Frequency  2.4 Ghz with coexistence built-in with Bluetooth  ARM Cortex M4 and ARM Cortex M3  Memory  256KB Flash (100KB free for custom applications)  Power Consumption  PHYSICAL  Length × Width  2 × 1.5 × 1.5 in (50 × 38 × 38 mm)  Housing Material  Polycarbonate and ABS  Color  White  Weight  1.3 oz (37 g)  1.6 oz (46 g)  1.7 oz (48 g)  1.6 oz (46 g)  Data Output to Cloud  ENVIRONMENTAL REQUIREMENTS  Temperature  -13° to +149° F (-25° to +65° C)  OTHER  Standards  FCC/CE/UL/FRE	AC Plugs		CEE 7/16 "Europlug" (Type C)	BS 1363 (Type G)	AS/NZS 3112 (Type I ungrounded)
Sensitivity  WiFi Type  802.11 b/g/n  WiFi Sensitivity  -97.5dBm @ 1DSSS -88.5dBm @ 11 CCK  WiFi Frequency  2.4 Ghz with coexistence built-in with Bluetooth  ARM Cortex M4 and ARM Cortex M3  Memory  256KB Flash (100KB free for custom applications)  Power Consumption  PHYSICAL  Length × Width  2 × 1.5 × 1.5 in (50 × 38 × 38 mm)  Housing Material  Polycarbonate and ABS  Color  White  Weight  1.3 oz (37 g)  1.6 oz (46 g)  1.7 oz (48 g)  1.6 oz (46 g)  CLOUD  Type  Bluzone Cloud - Cloud realtime managed  Data Output to Cloud  ENVIRONMENTAL REQUIREMENTS  Temperature  -13° to +149° F (-25° to +65° C)  OTHER  Standards  FCC/CE/UL/FRE	Bluetooth Type	Bluetooth Low Energy 4.1			
WiFi Sensitivity  -97.5dBm @ IDSSS -88.5dBm @ 11 CCK  WiFi Frequency  2.4 Ghz with coexistence built-in with Bluetooth  Processor Type  ARM Cortex M4 and ARM Cortex M3  Memory  256KB Flash (100KB free for custom applications)  Power Consumption  PHYSICAL  Length × Width  2 × 1.5 x 1.5 in (50 × 38 x 38 mm)  Housing Material  Polycarbonate and ABS  Color  White  Weight  1.3 oz (37 g)  1.6 oz (46 g)  1.7 oz (48 g)  1.6 oz (46 g)  CLOUD  Type  Bluzone Cloud - Cloud realtime managed  Data Output to Cloud  ENVIRONMENTAL REQUIREMENTS  Temperature  -13° to +149° F (-25° to +65° C)  OTHER  Standards  FCC/CE/UL/FRE	Bluetooth Sensitivity	-98dBm			
WiFi Frequency  2.4 Ghz with coexistence built-in with Bluetooth  Processor Type  ARM Cortex M4 and ARM Cortex M3  Memory  256KB Flash (100KB free for custom applications)  Power Consumption  PHYSICAL  Length × Width  2 × 1.5 x 1.5 in (50 × 38 x 38 mm)  Housing Material  Polycarbonate and ABS  Color  White  Weight  1.3 oz (37 g)  1.6 oz (46 g)  CLOUD  Type  Bluzone Cloud - Cloud realtime managed  Data Output to Cloud  ENVIRONMENTAL REQUIREMENTS  Temperature  -13° to +149° F (-25° to +65° C)  OTHER  Standards  FCC/CE/UL/FRE	WiFi Type	802.11 b/g/n			
Processor Type  ARM Cortex M4 and ARM Cortex M3  Memory  256KB Flash (100KB free for custom applications)  Power Consumption  PHYSICAL  Length × Width  2 × 1.5 x 1.5 in (50 × 38 x 38 mm)  Housing Material  Polycarbonate and ABS  Color  White  Weight  1.3 oz (37 g)  1.6 oz (46 g)  1.7 oz (48 g)  1.6 oz (46 g)  CLOUD  Type  Bluzone Cloud - Cloud realtime managed  Data Output to Cloud  ENVIRONMENTAL REQUIREMENTS  Temperature  -13° to +149° F (-25° to +65° C)  OTHER  Standards  FCC/CE/UL/FRE	WiFi Sensitivity	-97.5dBm @ IDSSS -88.5dBm @ 11 CCK			
Memory     256KB Flash (100KB free for custom applications)       Power Consumption     200mA when TX 20mA on sleep       PHYSICAL     2 × 1.5 × 1.5 in (50 × 38 × 38 mm)       Length × Width     2 × 1.5 × 1.5 in (50 × 38 × 38 mm)       Housing Material     Polycarbonate and ABS       Color     White       Weight     1.3 oz (37 g)     1.6 oz (46 g)     1.7 oz (48 g)     1.6 oz (46 g)       CLOUD     Type     Bluzone Cloud - Cloud realtime managed       Data Output to Cloud     0.1 to 1Mbit Up data       ENVIRONMENTAL REQUIREMENTS     -13° to +149° F (-25° to +65° C)       OTHER     Standards     FCC/CE/UL/FRE	WiFi Frequency	2.4 Ghz with coexistence built-in with Bluetooth			
Power   200mA when TX   20mA on sleep	Processor Type	ARM Cortex M4 and ARM Cortex M3			
Consumption  PHYSICAL  Length × Width  2 × 1.5 x 1.5 in (50 × 38 x 38 mm)  Housing Material  Polycarbonate and ABS  Color  White  Weight  1.3 oz (37 g)  1.6 oz (46 g)  1.7 oz (48 g)  1.6 oz (46 g)  CLOUD  Type  Bluzone Cloud - Cloud realtime managed  Data Output to Cloud  ENVIRONMENTAL REQUIREMENTS  Temperature  -13° to +149° F (-25° to +65° C)  OTHER  Standards  FCC/CE/UL/FRE	Memory	256KB Flash (100KB free for custom applications)			
Length × Width         2 × 1.5 × 1.5 in (50 × 38 × 38 mm)           Housing Material         Polycarbonate and ABS           Color         White           Weight         1.3 oz (37 g)         1.6 oz (46 g)         1.7 oz (48 g)         1.6 oz (46 g)           CLOUD           Type         Bluzone Cloud - Cloud realtime managed           Data Output to Cloud         0.1 to 1Mbit Up data           ENVIRONMENTAL REQUIREMENTS           Temperature         -13° to +149° F (-25° to +65° C)           OTHER           Standards		200mA when TX 20mA on sleep			
Housing Material  Color  White  Weight  1.3 oz (37 g)  1.6 oz (46 g)  Type  Bluzone Cloud - Cloud realtime managed  Data Output to Cloud  ENVIRONMENTAL REQUIREMENTS  Temperature  OTHER  Standards  Polycarbonate and ABS  White  1.7 oz (48 g)  1.6 oz (46 g)	PHYSICAL				
Color         White           Weight         1.3 oz (37 g)         1.6 oz (46 g)         1.7 oz (48 g)         1.6 oz (46 g)           CLOUD           Type         Bluzone Cloud - Cloud realtime managed           Data Output to Cloud           CO1 to 1Mbit Up data           ENVIRONMENTAL REQUIREMENTS           Temperature         -13° to +149° F (-25° to +65° C)           OTHER         Standards	Length × Width	2 × 1.5 × 1.5 in (50 × 38 × 38 mm)			
Weight         1.3 oz (37 g)         1.6 oz (46 g)         1.7 oz (48 g)         1.6 oz (46 g)           CLOUD           Type         Bluzone Cloud - Cloud realtime managed           Data Output to Cloud           Cloud - Cloud realtime managed           ENVIRONMENTAL REQUIREMENTS           Temperature         -13° to +149° F (-25° to +65° C)           OTHER           Standards	Housing Material	Polycarbonate and ABS			
Type Bluzone Cloud - Cloud realtime managed  Data Output to Cloud  ENVIRONMENTAL REQUIREMENTS  Temperature -13° to +149° F (-25° to +65° C)  OTHER  Standards FCC/CE/UL/FRE	Color				
Type Bluzone Cloud - Cloud realtime managed  Data Output to Cloud  ENVIRONMENTAL REQUIREMENTS  Temperature -13° to +149° F (-25° to +65° C)  OTHER  Standards FCC/CE/UL/FRE		1.3 oz (37 g)	1.6 oz (46 g)	1.7 oz (48 g)	1.6 oz (46 g)
Data Output to Cloud  ENVIRONMENTAL REQUIREMENTS  Temperature  OTHER  Standards  O.1 to 1Mbit Up data  O.1 to 1Mbit Up data		Disease Cloud Cloud and the second			
Temperature -13° to +149° F (-25° to +65° C)  OTHER  Standards FCC/CE/UL/FRE		<u> </u>			
Temperature -13° to +149° F (-25° to +65° C)  OTHER  Standards FCC/CE/UL/FRE	to Cloud	O.1 to 1Mbit Up data			
OTHER Standards FCC/CE/UL/FRE					
Standards FCC/CE/UL/FRE	Temperature	-13° to +149° F (-25° to +65° C)			
	OTHER				
Ontions	Standards	FCC/CE/UL/FRE			
Software configurable	Options	Software configurable			
Box Size 1 pcs.	Box Size	1 pcs.			
Warranty 2 years	Warranty	2 years			



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